

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of notifying users of electronic services, the method comprises:

dynamically matching information on topics of interest stored on distributed databases with user information stored in a ~~user~~ device, according to visibility settings in the information on the distributed databases and visibility settings in the information stored in the device; and
notifying the user of a match in the information.

2. (Currently Amended) The method of claim 1 wherein the ~~custom~~ information stored on distributed databases and user information is are stored as capsules ~~of data~~, each capsule having a wrapping field that includes fields that contain property characteristics of the capsule and a content field that contains actual information to be shared or sent.

3. (Currently Amended) The method of claim 1 wherein matching further comprises:
matching wrapper information from a received capsule, the wrapper information including ~~information~~ fields with information that determines ~~the~~ use of the information content of the capsule.

4. (Currently Amended) The method of claim 2 wherein matching wrapper information further comprises:

matching ~~information about the~~ a capsule owner, ~~the~~ time span of the capsule, and ~~the~~ intended audience for the capsule fields.

5. (Currently Amended) The method of claim 2 wherein matching wrapper information further comprises:

matching rules that determine which fields ~~pieces of information~~ are to be matched, what data are ~~information is~~ to be filled in, and what other actions are to occur if a match occurs.

6. (Currently Amended) The method of claim 2 wherein matching further comprises: matching content information contained in the capsule.

7. (Currently Amended) The method of claim 5 wherein the ~~data~~ capsules are small fragments of information, having properties that allow the capsules to be used to locate and obtain further information.

8. (Currently Amended) The method of claim 2 further comprising:
controlling the ~~user~~ device to allow the user to specify a request or an offer for information and services; and

sharing information from personalized databases in the device with a server device that accesses the distributed databases.

9. (Currently Amended) The method of claim 8 wherein sharing information further ~~comprising~~ comprises:

using ~~privacy~~ the visibility settings in the capsules to shield information shared in the course of interaction from other parties, the visibility settings including an encryption setting to encrypt the wrapping and contents of the capsules to protect the information.

10. (Currently Amended) A client device, comprises:

a computing device that executes computer instructions;

a database of personal interests;

a storage device that stores a computer program product comprising instruction to:

wrap content with control information designating ownership of the content, the time span the content is valid, and rules specifying how content is to be matched, with the control information further comprising fields for setting visibility settings in the information, the visibility settings determining how content information is made available to other devices.

11. (Currently Amended) The client device of claim 10 wherein the device enables the user to offer and/or request services and information based on personal interests of the user.

12. (Currently Amended) The client device of claim 10 wherein the computer program product comprises instructions to:

set visibility settings according to at least one of a setting that allows the client device to receive information or a setting that allows the client device to receive information without being made known to the sender of the information ~~specify a visibility method to receive information.~~

13. (Original) The device of claim 10 wherein the user device is a handheld computing device.

14. (Original) The device of claim 10 wherein the user device is a portable, wireless device.

Claims 15-25 are cancelled

26. (Currently Amended) A server system, comprises:

a matching process that matches information sent as a capsule with a wrapper from a client with information from other hosts that are also sending information to the server, the matching process comprising:

matching wrapper information from a received capsule, the wrapper information including control information that determines how to ~~the~~ use of the information content of the

capsule[[,]] with other capsules of information sent to the server, with the control information further comprising fields for setting visibility settings in the information, the visibility settings controlling how information is made available to other devices.

27. (Currently Amended) The server of claim 26 wherein the capsules include the wrapper information and content information, and the matching process further comprises:
a matching process to complementarily match the content of the received capsule with the content from other sources of content and making the existence and results of a match of a pair of matchable capsules visible only if matched capsules have compatible visibility settings.

28. (Original) The server of claim 26 wherein the server offers and requests information, and also services.

Claims 29-55 are cancelled.

56. (Previously Presented) The device of claim 1 wherein information in databases of personal interests are selectively activated based on physical and electronic conditions of the device.

57. (Previously Presented) The method of claim 2 further comprising:
making existence and results of a request or offer known to other devices parties only if matched capsules of the user of the electronic devices and those of the other devices have compatible visibility settings in the capsules.

58. (Previously Presented) The method of claim 2 wherein the capsules include fields specifying ownership, location, life span, binding and transmittal data.

59. (Previously Presented) The method of claim 10 wherein the capsules include a directional visibility flag that is attached to a request or offer for information or services.

60. (Previously Presented) The system of claim 10 wherein offers or requests can be for information, activity, connection, calculation, or storage.

61. (Previously Presented) The method of claim 2 wherein the contents portion is comprised of shareable, matchable and fillable elements.

62. (Previously Presented) The method of claim 1 wherein information in shareable databases are selectively activated based on matching information.

63. (Currently Amended) A computer program product residing on a computer readable medium for notifying users of electronic services, the product comprising instructions for causing a computing device to:

dynamically match ~~custom~~ information on topics of interest ~~which is~~ stored on distributed databases with information that is stored in a user device, according to visibility settings in the information and visibility settings in the information stored in the user device; and
notify the user of a match in the information.

64. (Previously Presented) The computer program product of claim 63 wherein the ~~custom~~ information is stored as capsules of data having a wrapping field that includes fields that contains property characteristics of the capsule and a content field that contains actual information to be shared or sent.

65. (Previously Presented) The computer program product of claim 63 wherein instructions to match further comprise instructions to:

match wrapper information from a received capsule, the wrapper information including information that determines the use of the information content of the capsule.

66. (Previously Presented) The computer program product of claim 64 wherein instructions to match wrapper information further comprise instructions to:

match information about a capsule owner, a time span of the capsule, and an intended audience for the capsule.

67. (Previously Presented) The computer program product of claim 64 wherein instructions to match wrapper information further comprise instructions to:

match rules that determine which pieces of information are to be matched, what information is to be filled in, and what other actions are to occur if a match occurs.

68. (Previously Presented) The computer program product of claim 64 wherein instructions to match further comprise instructions to:

match content information contained in the capsule.

69. (Previously Presented) The computer program product of claim 68 wherein the data capsules are small fragments of information including a property that the small fragments can be bound to other small fragments to locate and obtain further information or new information.

70. (Previously Presented) The computer program product of claim 64 further comprising instructions to:

control a device to allow a user to specify a request or an offer for information and services; and

share information from personalized databases with a server device that accesses the distributed databases.

71. (Currently Amended) The computer program product of claim 70 further comprising instructions to:

use privacy settings to shield information shared in the course of interaction from other parties, the privacy setting including a visibility setting and an encryption setting to encrypt the wrapping and contents of the capsules to protect the information.

72. (Previously Presented) The computer program product of claim 63 further comprising instructions to:

selectively activate information in databases of personal interests based on physical and electronic conditions.

73. (Currently Amended) The computer program product of claim 63 further comprising instructions to:

make the existence and results of a request or offer known to parties based on whether capsules ~~of~~ exchanged between the parties have matched compatible visibility settings.

74. (Previously Presented) The computer program product of claim 63 wherein the capsules have ownership, location, life span, binding and transmittal details.

75. (Currently Amended) The computer program product of claim 63 further comprising instructions to:

~~attach a directional visibility flag to a request or offer for information or services set~~
visibility settings according to at least one of a setting that allows a device to receive information or a setting that allows the device to receive information without being made known to the sender of the information.

76. (Previously Presented) The computer program product of claim 63 wherein offers or requests can be for information, activity, connection, calculation, or storage.

77. (Previously Presented) The computer program product of claim 63 wherein the contents portion is comprised of shareable, matchable and fillable elements.

78. (Previously Presented) The computer program product of claim 63 wherein information in shareable databases are selectively activated based on matching information.

79. (Currently Amended) The client device of claim 10 wherein the computer program product comprises instructions to:

send the capsule with the wrapper and the content ~~wrapped~~ information to a server device.

80. (Previously Presented) The client device of claim 10 wherein the content and the control information is stored as capsules of data, each capsule having a wrapper field that includes the control information of the capsule and a content field that contains the content information to be sent.

81. (Previously Presented) The device of claim 10 wherein the wrapper information includes information that determines the use of the information content of the capsule.

82. (Previously Presented) The device of claim 10 wherein the data capsules are small fragments of information, having properties that allow the capsules to be used to locate and obtain further information.

83. (New) The method of claim 1 wherein visibility settings are set according to a visibility value in a visibility field of information sent and a visibility value in a visibility field of information stored on a user device.

84. (New) The method of claim 1 wherein visibility settings includes a setting that allows or denies identification by other parties.

85. (New) The method of claim 1 wherein visibility settings includes a setting that allows a client system to receive information without being made known to the sender of the information.

86. (New) The method of claim 1 wherein visibility settings includes a setting that allows or denies access to matching by other parties

87. (New) The method of claim 1 wherein visibility settings includes a setting that allows or denies access to user activities or information by other parties.

88. (New) The method of claim 1 wherein visibility settings includes a setting that requires a mutual exchange of information between a sender and a receiver.